SEQUENCE LISTING

<110> DeliaTroph Pharmaceuticals Inc.
       Frost, Gregory I.
       Kundu, Anirban
       Bookbinder, Louis H.

<120> HUMAN CHONDROITINASE GLYCOPROTEIN (CHASEGP), PROCESS FOR PREPARING
THE SAME, AND PHARMACEUTICAL COMPOSITIONS COMPRISING THEREOF

<130> DELIA1330WO

<150> US 60/433,532
<151> 2002-12-16

<160> 10

<170> PatentIn version 3.1

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<212> PRT
<213> Homo sapiens

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Ser Cys Leu Lys Pro Ala Arg Leu Pro Ile Tyr Gln Arg Lys Pro Phe
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Ile Ala Ala Trp Asn Ala Pro Thr Asp Gln Cys Leu Ile Lys Tyr Asn
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Lys Ala Arg Gly Gln Asn Val Thr Ile Phe Tyr Val Asn Arg Leu Gly
                85   90   95

Tyr Tyr Pro Trp Tyr Thr Ser Gln Gly Val Pro Ile Asn Gly Gly Leu
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Pro Gln Asn Ile Ser Leu Gln Val His Leu Glu Lys Ala Asp Gln Asp
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Ile Asn Tyr Tyr Ile Pro Ala Glu Asp Phe Ser Gly Leu Ala Val Ile
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Glu Ser Ala Lys Ala Phe Met Lys Glu Thr Ile Lys Leu Gly Ile Lys
        195             200             205


Ser Arg Pro Lys Gly Leu Trp Gly Tyr Tyr Leu Tyr Pro Asp Cys His
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Asn Tyr Asn Val Tyr Ala Pro Asn Tyr Ser Gly Ser Cys Pro Glu Asp
225             230             235             240


Glu Val Leu Arg Asn Asn Glu Leu Ser Trp Leu Trp Asn Ser Ser Ala
            245             250             255


Ala Leu Tyr Pro Ser Ile Cys Val Trp Lys Ser Leu Gly Asp Ser Glu
            260             265             270


Asn Ile Leu Arg Phe Ser Lys Phe Arg Val His Glu Ser Met Arg Ile
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Ser Thr Met Thr Ser His Asp Tyr Ala Leu Pro Val Phe Val Tyr Thr
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Arg Leu Gly Tyr Arg Asp Glu Pro Leu Phe Phe Leu Ser Lys Gln Asp
305             310             315             320


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Val Ile Trp Gly Asp Met Asn Leu Thr Ala Ser Lys Ala Asn Cys Thr
            340             345             350


Lys Val Lys Gln Phe Val Ser Ser Asp Leu Gly Ser Tyr Ile Ala Asn
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Val Thr Arg Ala Ala Glu Val Cys Ser Leu His Leu Cys Arg Asn Asn
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Asn Pro Ala Ser Tyr His Ile Glu Ala Ser Glu Asp Gly Glu Phe Thr
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Val Lys Gly Lys Ala Ser Asp Thr Asp Leu Ala Val Met Ala Asp Thr
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Phe Ser Cys His Cys Tyr Gln Gly Tyr Glu Gly Ala Asp Cys Arg Glu
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Ile Lys Thr Ala Asp Gly Cys Ser Gly Val Ser Pro Ser Pro Gly Ser
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Leu
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            20              25              30


Ser Ser Leu Lys Pro Ala Arg Leu Pro Val Tyr Gln Arg Lys Pro Phe
        35              40              45


Ile Ala Ala Trp Asn Ala Pro Thr Asp Leu Cys Leu Ile Lys Tyr Asn
    50              55              60


Leu Thr Leu Asn Leu Lys Val Phe Gln Met Val Gly Ser Pro Arg Leu
65              70              75              80


Lys Asp Arg Gly Gln Asn Val Val Ile Phe Tyr Ala Asn Arg Leu Gly
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     Asp. Ile Tyr Arg Gln Lys Ser Arg Thr Leu Ile Ser Asp Met Lys Glu
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     Asn Ile Ser Ala Ala Asp Ile Glu Tyr Ser Ala Lys Ala Thr Phe Glu
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     Lys Ser Ala Lys Ala Phe Met Glu Glu Thr Ile Lys Leu Gly Ser Lys
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     Ser Arg Pro Lys Gly Leu Trp Gly Tyr Tyr Leu Tyr Pro Asp Cys His
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     Asn Tyr Asn Val Tyr Ala Thr Asn Tyr Thr Gly Ser Cys Pro Glu Glu
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     Glu Val Leu Arg Asn Asn Asp Leu Ser Trp Leu Trp Asn Ser Ser Thr
                     245                 250                 255


     Ala Leu Tyr Pro Ala Val Ser Ile Arg Lys Ser Phe Ala Asp Ser Glu
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     Asn Thr Leu His Phe Ser Arg Phe Arg Val Arg Glu Ser Leu Arg Ile
             275                 280                 285


     Ser Thr Met Thr Ser Gln Asp Tyr Ala Leu Pro Val Phe Val Tyr Thr
         290                 295                 300


     Gln Leu Gly Tyr Lys Glu Glu Pro Leu Leu Phe Pro Phe Lys Gln Asp
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     Leu Ile Ser Thr Ile Gly Glu Ser Ala Ala Leu Gly Ala Ala Gly Ile
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Lys Val Asn Arg Phe Val Asn Ser Asp Phe Gly Ser Tyr Ile Ile Asn
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Val Thr Arg Ala Ala Glu Val Ser Ser Arg His Leu Cys Lys Asn Asn
    370                 375                 380


Gly Arg Cys Val Arg Lys Thr Trp Lys Ala Ala His Tyr Leu His Leu
385                 390                 395                 400


Asn Pro Ala Ser Tyr His Ile Glu Ala Ser Glu Asp Gly Glu Phe Ile
                405                 410                 415


Val Arg Gly Arg Ala Ser Asp Thr Asp Leu Ala Val Met Ala Glu Asn
            420                 425                 430


Phe Leu Cys His Cys Tyr Glu Gly Tyr Glu Gly Ala Asp Cys Arg Glu
        435                 440                 445


Met Thr Glu Ala Ser Gly Pro Ser Gly Leu Ser Leu Ser Ser Ser Ser
    450                 455                 460


Val Ile Thr Leu Cys Leu Leu Val Leu Ala Gly Tyr Gln Ser Ile Gln
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Leu



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gggactgcag gagcatgcca tcatgcccag ctgatttttg tatttttagt agagatgggg     240

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Leu Asn Leu Lys Met Phe Pro Val Ile Gly Ser Pro Leu Ala Lys Ala
        35              40              45

Arg Gly Gln Asn Val Thr Ile Phe Tyr Val Asn Arg Leu Gly Tyr Tyr
    50              55              60

Pro Trp Tyr Thr Ser Gln Gly Val Pro Ile Asn Gly Gly Leu Pro Gln
65              70              75              80

Asn Ile Ser Leu Gln Val His Leu Glu Lys Ala Asp Gln Asp Ile Asn
            85              90              95

Tyr Tyr Ile Pro Ala Glu Asp Phe Ser Gly Leu Ala Val Ile Asp Trp
        100             105             110

Glu Tyr Trp Arg Pro Gln Trp Ala Arg Asn Trp Asn Ser Lys Asp Val
        115             120             125

Tyr Arg Gln Lys Ser Arg Lys Leu Ile Ser Asp Met Gly Lys Asn Val
    130             135             140

Ser Ala Thr Asp Ile Glu Tyr Leu Ala Lys Val Thr Phe Glu Glu Ser
145             150             155             160

Ala Lys Ala Phe Met Lys Glu Thr Ile Lys Leu Gly Ile Lys Ser Arg
            165             170             175

Pro Lys Gly Leu Trp Gly Tyr Tyr Leu Tyr Pro Asp Cys His Asn Tyr
        180             185             190

Asn Val Tyr Ala Pro Asn Tyr Ser Gly Ser Cys Pro Glu Asp Glu Val
    195             200             205

Leu Arg Asn Asn Glu Leu Ser Trp Leu Trp Asn Ser Ser Ala Ala Leu
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Tyr Pro Ser Ile Cys Val Trp Lys Ser Leu Gly Asp Ser Glu Asn Ile
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Leu Arg Phe Ser Lys Phe Arg Val His Glu Ser Met Arg Ile Ser Thr
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Met Thr Ser His Asp Tyr Ala Leu Pro Val Phe Val Tyr Thr Arg Leu
            260             265             270

Gly Tyr Arg Asp Glu Pro Leu Phe Phe Leu Ser Lys Gln Asp Leu Val
            275             280             285

Ser Thr Ile Gly Glu Ser Ala Ala Leu Gly Ala Ala Gly Ile Val Ile
    290             295             300

Trp Gly Asp Met Asn Leu Thr Ala Ser Lys Ala Asn Cys Thr Lys Val
305             310             315             320

Lys Gln Phe Val Ser Ser Asp Leu Gly Ser Tyr Ile Ala Asn Val Thr
            325             330             335

Arg Ala Ala Glu Val Cys Ser Leu His Leu Cys Arg Asn Asn Gly Arg
            340             345             350

Cys Ile Arg Lys Met Trp Asn Ala Pro Ser Tyr Leu His Leu Asn Pro
            355             360             365

Ala Ser Tyr His Ile Glu Ala Ser Glu Asp Gly Glu Phe Thr Val Lys
    370             375             380

Gly Lys Ala Ser Asp Thr Asp Leu Ala Val Met Ala Asp Thr Phe Ser
385             390             395             400

Cys His Cys Tyr Gln Gly Tyr Glu Gly Ala Asp Cys Arg Glu Ile Lys
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